

**Product Name :**  
Brinell Hardness Tester

**Product Code :**  
MTL-0007



**Description :**

Brinell Hardness Tester

**Technical Specification :**

- Innovative closed-loop technology. The Brinell hardness tester incorporates the latest load cell technology. The test load is applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit. The result is highly accurate Brinell hardness measurements at all test loads up to 0.5%. The common load overshoot or undershoot as known from traditional dead weight, or open loop, systems is eliminated. The absence of mechanical weights not

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only eliminates friction problems but also makes the equipment less sensitive to misalignments caused by vibrations.

- The whole weight of the tester is 50% less than the traditional dead weights type tester.
- Test load selection by keyboard and LCD screen.
- Fully automatic test cycles. The Brinell hardness Tester features a fully automatic test cycle, load application, holding, unloading, is performed fully automatically. This greatly improves reproducibility of test results since operator influence is eliminated.
- Selectable dwell times by screen. The indenter, load, and other test information are shown clearly on the large LCD screen.
- The directions for 0.102F/D<sup>2</sup> ratios selecting according to the materials and hardness range can be showing on the screen.
- Equipped with a 20X optical microscope to measure the diameter of Brinell indentation.
- Brinell Hardness Calculator (BHC) make the hardness value calculation easier and convenient.

#### FEATURES:

- Load Cell driven system provides precise control of test force application
- Direct digital reading
- Engineered to obtain highly sensitive and accurate readings
- Perfect for laboratories, workshops, tool rooms, inspection labs, etc.
- Measuring Range: 8-650HBW

#### SPECIFICATIONS:

- Loads?3000kgf (29400N), 1500Kgf (14700N), 1000Kgf (9800N), 750Kgf(7355N), 500Kgf (4900N), 250Kgf (2452N), 187.5Kgf (1839N), 125Kgf (1226N), 100Kgf (980N), 62.5Kgf(612.9N)
- Load dwell duration: 2s?99s, can be set and stored
- Tungsten Carbide Ball indenter: 10mm, 5mm, 2.5mm
- Measuring range: 8-650HBW
- Magnification of the microscope: 20X
- Resolution capability of the microscope: 0.005mm
- Max measurable height: 230 mm
- Max measurable depth: 140 mm

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- Standard blocks: 125-350HBW10/3000, 125-350HBW10/1000
  - Power supply: 220/110 V, 50/60 Hz, 4A

## Civil Mechanical India

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